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ATTORNEY DOCKET NO.: CXU-339

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Chalmers Butler, et al. ) Examiner: Not Yet Assigned  
)  
Serial No.: 09/894,870 ) Art Unit: 2133  
)  
Filed: June 28, 2001 ) Our Account No.: 04-1403  
)  
Confirmation No.: 3691 )  
)  
For: Designs for Wide Band Antennas With )  
Parasitic Elements and a Method to )  
Optimize Their Design Using a Genetic )  
Algorithm and Fast Integral Equation )  
Technique )

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INFORMATION DISCLOSURE STATEMENT

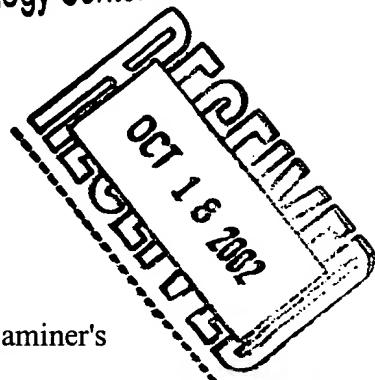
Commissioner of Patents  
Washington, D.C. 20231

Honorable Commissioner:

The present Information Disclosure Statement is submitted for the Examiner's consideration in accordance with the Applicants' duty of disclosure.

Applicants do not admit by virtue of filing this Statement that the cited documents comprise prior art under §102 or §103, and Applicants reserve the right to contest any such prior art status or its effect upon the patentability of any pending claim. If any fee or extension of time not accounted for herein is required for entry of this Statement, such extension is hereby requested and the fee should be charged to our Deposit Account No. 04-1403.

Regarding the first four references listed on this statement, these correspond to a PCT International Search Report, followed by three references as cited therein. Please



refer to the Search Report itself for information regarding alleged relevance to the present application.

The Examiner is encouraged to contact the undersigned at his convenience should he have any questions regarding this matter or require any additional information.

Respectfully submitted,

DORITY & MANNING,  
ATTORNEYS AT LAW, P.A.

August 26, 2002  
Date

  
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE STATEMENT

In re Application of Chambers Buter, et al. Attorney Docket No.: CXU-339  
Serial No.: 09/894,870 Date: August 26, 2002  
Filed: June 28, 2001 Group Art Unit: 2133  
Confirmation No.: 3691 Our Account No.: 04-1403  
Title: Designs for Wide Band Antennas With Parasitic Elements and a Method to Optimize Their Design Using a Genetic Algorithm and Fast Integral Equation Technique

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Commissioner for Patents  
U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

The following is an Information Disclosure Statement for the captioned patent application, pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

1.[x] Attached hereto is:

- a.[x] A list of materials for consideration per Rule 98(a)(1): 1 page(s)
- b.[x] A legible copy of each patent, publication, or other item listed per Rule 98(1)(2), unless not required per Rule 98(c) and/or (d) and as indicated on the attached list(s):  
6 item(s)
- c.[ ] For each non-English language item listed, pursuant to Rule 98(a)(3), a concise explanation of the relevance thereof as it is presently understood by the individual designated in Rule 56(c) most knowledgeable about the content of such items: \_\_\_\_\_

[ ] Such explanation is provided in the Search Report from a corresponding application enclosed herewith along with any enclosed translation into English.

2.[x] This Information Disclosure Statement is being filed [CHECK ONE]:

- a.[x] WITHIN THREE MONTHS of the application filing date, national stage date of entry, or along with or after a request for continued examination, OR BEFORE the mailing date of a first Office Action on the merits, which ever event occurs last, WHEREFORE per Rule 97(b) NO filing fee or Rule 97(e) certificate is required.
- b.[ ] AFTER the time periods of section 2.a above, but BEFORE a Final Action, Notice of Allowance OR an action that otherwise closes prosecution, WHEREFORE PER Rule 97(c) submitted herewith is [CHECK ONE]:
  - i.[ ] Certification per Rule 97(e); OR
  - ii[ ] Filing Fee per Rule 17(p) .....\$180.00
- c.[ ] AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the issue fee, WHEREFORE per Rule 97(d) submitted herewith is:
  - i. Certification per Rule 97(e); AND
  - ii. Filing fee per Rule 17(p) .....\$180.00

3.[ ] Rule 97(e) Certification; per Rule 97(e), the undersigned certifying party make the following certification statement [CHECK ONE]:

- a.[ ] That each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; OR
- b.[ ] That no item of information contained in this Information Disclosure Statement was first cited in a foreign patent office in a counterpart foreign application and to the knowledge of the undersigned after making a reasonable inquiry, was known to any individual designated in Rule 56(c) more than three months prior to the filing of this statement.

CERTIFYING PARTY (if different from bottom signature; omission here indicates that certification is being made by signer per signature below).

Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Address: \_\_\_\_\_ Date: \_\_\_\_\_

4.[x] DEPOSIT ACCOUNT AUTHORIZATION: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any fees in addition to the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (deficiency only) now or hereafter relative to this application and the resulting official document under Rule 20, or credit any overpayment, to our Account No. shown in the heading hereof for which purpose a duplicate copy of this sheet is attached. This statement does not authorize charge of the issue fee in this case.

5.[x] CERTIFICATE OF MAILING: This Information Disclosure Statement is being filed pursuant to [CHECK AND COMPLETE ONE]:

a.[ ] First Class Mail Certificate of Mailing under Rule 8:

I hereby certify that this correspondence and any referenced attachment and/or fee are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, Washington, D.C. 20231, on \_\_\_\_\_, 2002.

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DORITY & MANNING, P.A.

By: Richard M. Moose, Esquire

Reg. No.: 31,226

Signature: Richard M. Moose

Date: August 26, 2002



(Rev. 5/92) Information Disclosure Statement List By Applicant Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)		Attorney Docket Number CXU-339	Serial Number 09/894,870
		Applicant: Chalmers Butler, et al.	
		Filing Date June 28, 2001	Group Art Unit 2133
		Confirmation No. 3691	

NOTE: If no indication is made in the column marked "COPY NOTE," the required legible copy of the corresponding item is submitted herewith; otherwise, a copy is not required and/or not submitted, for the following reason(s) [corresponding reason number is listed in "COPY NOTE" column]

(1) This item is cumulative, per Rule 98(c)  
 (2) A copy of this item was previously cited by or submitted to the U.S. Patent and Trademark Office in:

USSN \_\_\_\_\_, filed \_\_\_\_\_, or  
 USSN \_\_\_\_\_, filed \_\_\_\_\_;

Relied on under 35 U.S.C. Section 120, per Rule 98(d)

(3) Both reasons (1) and (2) apply  
 (4) No legible complete copy is possessed, in custody of controlled, or readily available

U.S. PATENT DOCUMENTS						
EXAMINER INITIALS	PATENTEE NAME		PATENT NUMBER		ISSUE DATE	COPY NOTE
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIALS	COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	TRANSLATION		COPY NOTE
				YES	NO	

\*\*"NO" means that no copy of an English language translation is within the possession, custody, or control of, or is readily available to any individual designated in Rule 56(c).

EXAMINER INITIALS	OTHER DOCUMENTS Specify author (if any), Title, Pertinent Pages, Date & Place of Publication	COPY NOTE
	PCT International Search Report, International Application No. PCT/US01/20853, date of completion of international search December 4, 2001; date of mailing of international search report March 20, 2002. Accompanied by three prior art documents cited in Report as follows:	
	Nakano, et al. Realization of Dual-Frequency and Wide-Band VSWR Performances using Normal-Mode Helical and Inverted-F Antennas. IEEE Trans. Antennas and Propagation. June 1998. Vol. 46. No. 6. Entire document. (Cited in above-referenced PCT International Search Report).	
	Altman, et al. New Designs of Ultra Wide-Band Communication Antennas using a Genetic Algorithm. IEEE Trans. Antennas and Propagation. October 1997. Vol. 45. No. 10. Entire document (Cited in above-referenced PCT International Search Report).	
	Johnson, et al. Genetic Algorithms in Engineering Electromagnetics. IEEE Antennas and Propagation Magazine. August 1997. Vol. 39. No. 4. Entire document. (Cited in above-referenced PCT International Search Report).	
	David L. Carroll/University of Illinois at Urbana. Chemical Laser Modeling With Genetic Algorithms. AIAA Journal. February 1996, Vol. 34, No. 2.	
	Shawn D. Rogers, et al./Department of Electrical and Computer Engineering/Clemson University. An Efficient Curved-Wire Integral Equation Solution Technique. IEEE Trans. Antennas Propagat.	
EXAMINER	DATE CONSIDERED	
Examiner:	initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	